

1997 Chevrolet S10 Pickup

MAINTENANCE INFORMATION 1994-99 MAINTENANCE General Motors Corp. Maintenance Information

MAINTENANCE INFORMATION

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MODEL IDENTIFICATION

VIN LOCATION

The Vehicle Identification Number (VIN) is located on the left side of the dash panel at the base of the windshield. The VIN chart explains the code characters.

SERVICE PARTS IDENTIFICATION LABEL

Label is located inside glove box door and has the vehicle's VIN, wheelbase, paint information, and a list of all production options and special equipment.

VIN CODE ID EXPLANATION

Numbers preceding the explanations in the legend below refer to the sequence of characters as listed on VIN identification label. See VIN example below.

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VIN CODE ID EXPLANATION

(VIN)	1	G	C	B	S	1	4	W	4	S	8	1	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

- 1 - Nation of Origin**
 - 1 * United States
- 2 - Manufacturer**
 - G * General Motors
- 3 - Make & Type**
 - C * Chevrolet Truck
 - T * GMC Truck
- 4 - GVWR/Brake System**
 - B * 3001-4000/Hydraulic
 - C * 4001-5000/Hydraulic
 - D * 5001-6000/Hydraulic
 - E * 6001-7000/Hydraulic
 - F * 7001-8000/Hydraulic
 - G * 8001-9000/Hydraulic
- 5 - Chassis Type**
 - S * 2WD
 - T * 4WD
- 6 - Truck Series or Cab Type**
 - 1 * 1/2 Ton
- 7 - Body Type**
 - 4 * 2-Door Regular Cab 6-Ft. Short Bed
 - 4 * 2-Door Regular Cab 7-Ft. Long Bed
 - 4 * 2-Door Regular Cab Sportside
 - 9 * Extended Cab
 - 9 * Extended Cab with 3rd Door
- 8 - Engine Code**
 - 4 * 2.2 L4 MFI
 - W * 4.3L V6 HO CPI (L35)
 - W * 4.3L V6 H.O. SCPI VORTEC (L35)
 - X * 4.3L V6 SCPI VORTEC (LF6)
 - Z * 4.3L V6 TBI (LB4)
- 9 - VIN Check Digit**
 - * 0 Through 9, or X
- 10 - Vehicle Model Year**
 - R * 1994
 - S * 1995
 - T * 1996
 - V * 1997
 - W * 1998
 - X * 1999
- 11 - Assembly Plant Code**
 - K * Linden, NJ
 - 2 * Moraine, OH
 - 8 * Shreveport, LA
- 12-17 - Serial Number**
 - * Sequential Production Number

Fig. 1: VIN Code ID Explanation

MAINTENANCE SERVICE INTERVAL DEFINITIONS

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SHORT TRIP/CITY & LONG TRIP/HIGHWAY SERVICE DEFINITIONS

NOTE: Starting in the 1996 model year, General Motors has renamed their maintenance schedules; One is referred to as the Short-Trip/City and the other is the Long Trip/Highway schedule. These schedule requirements are similar to the familiar Severe Service and Normal schedules and can be used in place of one another.

SEVERE & NORMAL SERVICE DEFINITIONS

NOTE: Use the Severe Service schedule if the vehicle to be serviced is operated under ANY (one or more) of these conditions:

Service is recommended at mileage intervals based on vehicle operation, emission classification, and Gross Vehicle Weight Rating (GVWR, VIN Position 4). Emission classification is identified by engine VIN code (except diesel-powered vehicles). Manufacturer's Schedules identify items to be serviced based on type of operation. Service schedules are based on the following primary operating conditions:

Severe Service

- Short Trips (4 Miles Or Less)
- Freezing Temperatures
- Towing Or Heavily Loaded
- Severe Dust Conditions
- Hot Weather, Stop-And-Go Driving
- Extensive Idling Conditions (Taxi Or Delivery Type Service)

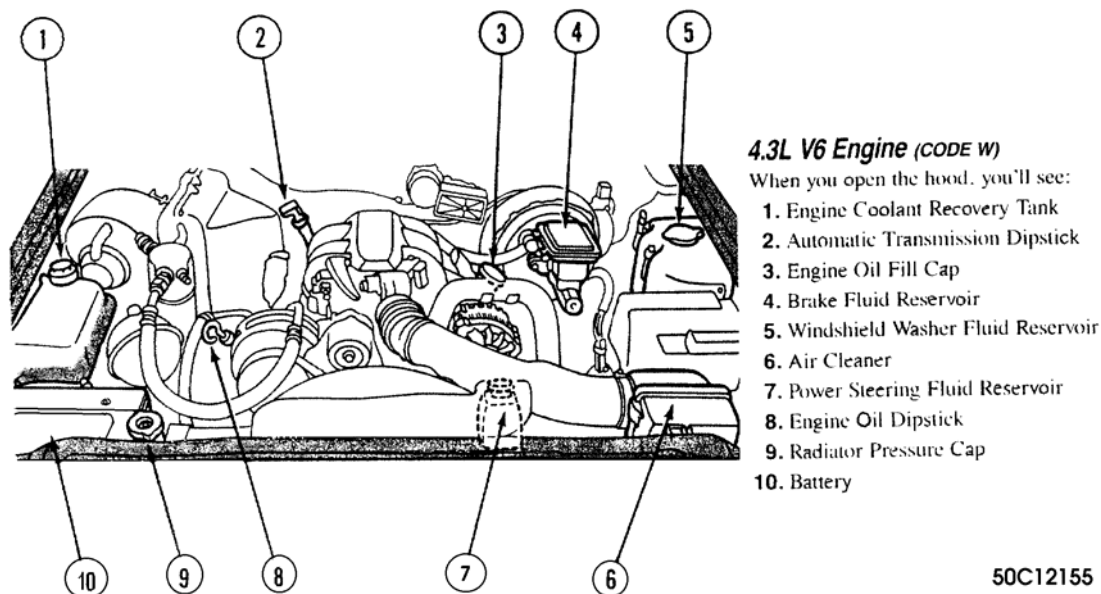
Normal Service

- No Severe Service Operating Conditions

SERVICE POINT LOCATIONS

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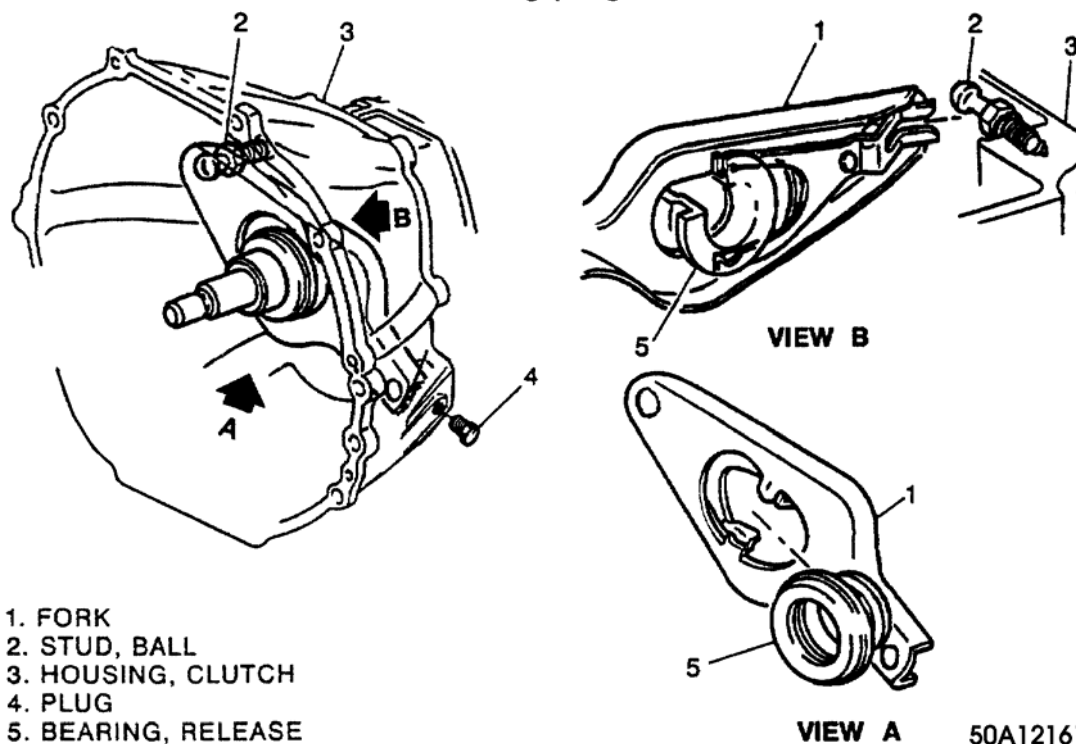
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Fig. 2: Service Point Locations (4.3L V-6 Typical)
 Courtesy of GENERAL MOTORS CORP.

Clutch Fork and Release Bearing (Borg Warner Transmission)



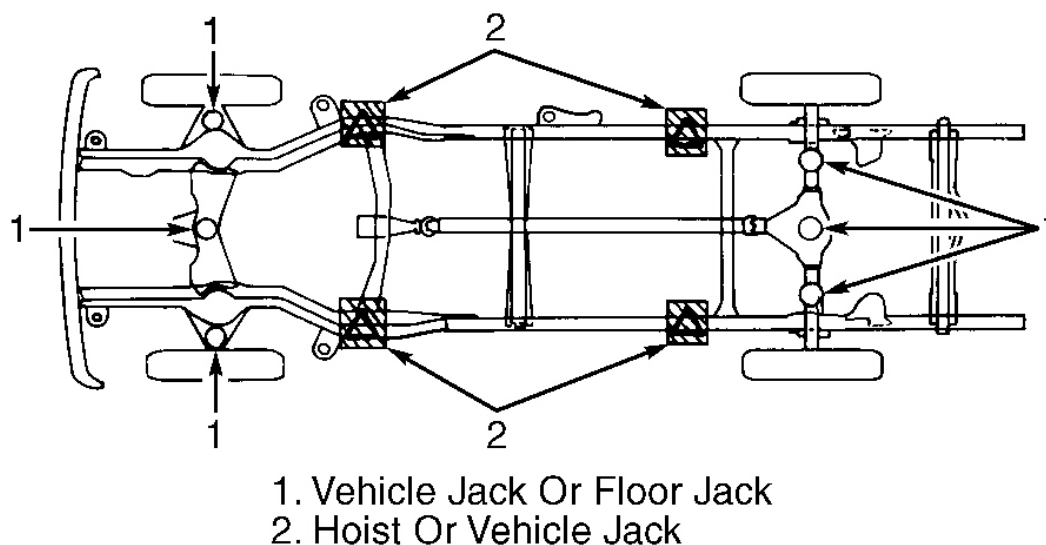
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Fig. 3: Borg-Warner Clutch Service Points

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Courtesy of GENERAL MOTORS CORP.



G90E04477

Fig. 4: Lift Point Locations

Courtesy of GENERAL MOTORS CORP.

NOTE: For more information regarding jacking or hoisting the vehicle, refer to the **JACKING & HOISTING** article in the **WHEEL ALIGNMENT** section.

SERVICE LABOR TIMES

NOTE: Labor times are provided, where available, within appropriate **SERVICE INTERVAL** table in **SCHEDULED SERVICES** article.

WHEEL & TIRE SPECIFICATIONS

Wheel and tire information can be found on the Certification/Tire label attached to rear of driver's door or door pillar.

NOTE: **DO NOT** use chains with P235/75R15 size tires. Vehicle damage may result.

WHEEL SIZE

Replacement wheels should match originals in load limit, diameter, width, offset, and mounting configuration. The wrong wheel can cause difficulty with bearing life, brake cooling, speedometer/odometer calibration, stopping ability, headlight aim, bumper height, vehicle ground clearance and tire or tire chain clearance to body

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and chassis.

WHEEL TIGHTENING

Tighten lug nuts to 95 ft. lbs. (130 N.m).

BATTERY SPECIFICATIONS

CAUTION: When battery is disconnected, vehicles equipped with computers may lose memory data. When battery power is restored, driveability problems may exist on some vehicles. These vehicles may require a relearn procedure. See **COMPUTER RELEARN PROCEDURES** article in the **GENERAL INFORMATION** section.

CAUTIONS & WARNINGS

SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)

NOTE: See the **AIR BAGS** article in the **ACCESSORIES/SAFETY EQUIPMENT** Section.

Modifications or improper maintenance, including incorrect removal and installation of the Supplemental Restraint System (SRS), can adversely affect system performance. DO NOT cover, obstruct or change the steering wheel horn pad in any way, as such action could cause improper function of the system. Use only plain water when cleaning the horn pad. Solvents or cleaners could adversely affect the air bag cover and cause improper deployment of the system.

WARNING: To avoid injury from accidental air bag deployment, read and carefully follow all warnings and service precautions. See appropriate **AIR BAGS** article in **ACCESSORIES/SAFETY EQUIPMENT**.

Modification to the air bag system component or wiring can adversely affect system performance and possibly cause injury.

CAUTION: The Diagnostic Energy Reserve Module (DERM) can maintain enough voltage to cause a deployment of the inflator module for up to 10 minutes after the ignition switch is turned off and the battery is disconnected. Many of the service procedures require disconnection of the inflator module to avoid an accidental deployment.

CAUTION: Disconnect negative battery cable before servicing any air bag system, steering column or passenger side dash component. After any repair, turn ignition key to the ON position from passenger's side of vehicle in case of accidental air bag inflation

AIR CONDITIONING SERVICING

CAUTION: Avoid breathing R-134a refrigerant and PAG lubricant vapors, exposure may irritate eyes, nose and throat. To remove R-134a from system use R-134a recycling equipment that meets SAE J2210 specifications. If accidental system discharge occurs, ventilate work area before resuming service.

WARNING: R-134a service equipment or vehicle A/C systems **SHOULD NOT** be pressure tested or leak tested with compressed air. Some mixtures of air/R134a have shown to be combustible at elevated pressures. These mixtures are dangerous and may cause fire and/or explosions. See **AIR CONDITIONING SERVICE** article in **GENERAL INFORMATION** section.

ANTI-LOCK BRAKE SYSTEM

The anti-lock brake system contains electronic equipment that can be susceptible to interference caused by improperly installed or high output radio transmitting equipment. Since this interference could cause the possible loss of the anti-lock braking capability, such equipment should be installed by qualified professionals.

On models equipped with anti-lock brake systems, **ALWAYS** observe the following cautions:

- **DO NOT** attempt to bleed hydraulic system without first referring to the appropriate **ANTI-LOCK BRAKE SYSTEM** article in the **BRAKES** Section.
- **DO NOT** mix tire sizes. As long as tires remain close to the original diameter, increasing the width is acceptable. Rolling diameter must be identical for all 4 tires. Some manufacturers recommend tires of the same brand, style and type. Failure to follow this precaution may cause inaccurate wheel speed readings.
- Use **ONLY** recommended brake fluids. **DO NOT** use silicone brake fluids in an ABS-equipped vehicle.

AXLE LUBRICANTS

CAUTION: Axle lube quantities must be replaced if the axle has been submerged in water.

REPLACING BLOWN FUSES

CAUTION: Before replacing a blown fuse, remove ignition key, turn off all lights and accessories to avoid damaging the electrical system. Be sure to use fuse with the correct indicated amperage rating. The use of an incorrect amperage rating fuse may result in a dangerous electrical system overload.

BATTERY WARNING

WARNING: When battery is disconnected, vehicles equipped with computers may lose memory data. When battery power is restored, driveability problems

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may exist on some vehicles. These vehicles may require a relearn procedure. See **COMPUTER RELEARN PROCEDURES** article in **GENERAL INFORMATION** section.

BRAKE PAD WEAR INDICATOR

CAUTION: Indicator will cause a squealing or scraping noise, warning that brake pads need replacement.

CATALYTIC CONVERTER

CAUTION: To prevent catalytic converter overheating, **DO NOT** allow engine to idle for more than 20 minutes.

COOLANT (DEX-COOL 1995-96 MODELS)

CAUTION: Some 1995 build-out and all 1996 models have DEX-COOL engine coolant installed at the factory. DEX-COOL coolant is a silicate-free coolant that is orange in color. It should not be mixed with regular ethylene-glycol coolant. To avoid possible damage to vehicle cooling system, visually check engine coolant color before adding and/or changing engine coolant. Vehicle should have an identification label placed under the hood stating what type coolant is installed.

COOLANT (PROPYLENE-GLYCOL FORMULATIONS)

CAUTION: To avoid possible damage to vehicle use only ethylene-glycol based coolants with a mixture ratio from 44-68% anti-freeze. **DO NOT** use 100% anti-freeze as it will cause the formation of cooling system deposits. This results in coolant temperatures of over 300° F (149°C) which can melt plastics. 100% anti-freeze has a freeze point of only -8° F (-22°C).

CAUTION: Propylene-Glycol Mixtures has a smaller temperature range than Ethylene-Glycol. The temperature range (freeze-boil) of a 50/50 Anti-Freeze/Water Mix is as follows: Propylene-Glycol -26° F (-32°C) - 257° F (125°C); Ethylene-Glycol -35° F (-37°C) - 263° F (128°C).

CAUTION: Propylene-Glycol/Ethylene-Glycol Mixtures can cause the destabilization of various corrosion inhibitors. Also Propylene-Glycol/Ethylene-Glycol has a different specific gravity than Ethylene-Glycol coolant, which will result in inaccurate freeze point calculations.

ELECTROSTATIC DISCHARGE SENSITIVE (ESD) PARTS

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WARNING: Many solid state electrical components can be damaged by static electricity (ESD). Some will display a warning label, but many will not. Discharge personal static electricity by touching a metal ground point on the vehicle prior to servicing any ESD sensitive component.

FUEL SYSTEM SERVICE

WARNING: Relieve fuel system pressure prior to servicing any fuel system component.

HALOGEN BULBS

WARNING: Halogen bulbs contain pressurized gas which may explode if overheated. DO NOT touch glass portion of bulb with bare hands. Eye protection should be worn when handling or working around halogen bulbs.

METHANOL GASOLINE

CAUTION: Fuel that is more than 5% methanol should not be used in this vehicle. It can corrode metal parts in the fuel system, and damage plastic and rubber parts. Even at 5% methanol or less, solvents and corrosion preventers must be used with this fuel to avoid these problems.

RADIATOR CAP

CAUTION: Always disconnect the fan motor when working near the radiator fan. The fan is temperature controlled and could start at any time even when the ignition key is in the OFF position. DO NOT loosen or remove radiator cap when cooling system is hot.

RADIATOR FAN

WARNING: Keep hands away from radiator fan.

SPARK PLUGS - 2.2L

NOTE: Allow engine to cool before removing spark plugs from aluminum cylinder heads.

WARRANTY INFORMATION

CAUTION: Due to the different warranties offered in various regions and the variety of

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after-market extended warranties available, please refer to the warranty package that came with the vehicle to verify all warranty options.

BUMPER-TO-BUMPER PLUS COVERAGE LIMITED WARRANTY

Entire vehicle (except battery) is covered for 3 years or 50,000 miles, whichever occurs first. Covered by this warranty are any repairs to vehicle components which have proven defective in material and workmanship under normal use (tires excluded). Warranty repairs (parts and labor) will be made by the Dealer at no charge using new or remanufactured parts. This warranty is subject to a 100 deductible for each repair visit after the first year or 12,000 miles, whichever occurs first.

BATTERY COVERAGE

Covers replacement cost of battery for 3 years or 50,000 miles, whichever occurs first. A prorated charge applies after first 12 months or 12,000 miles, whichever occurs first.

CORROSION COVERAGE

Covers any body sheet metal panel that is perforated due to corrosion. Coverage is for 6 years or 100,000 miles, whichever occurs first.

EMISSIONS "DEFECT" & "PERFORMANCE" WARRANTIES (FEDERAL)

Defect Warranty ensures vehicle meets applicable EPA regulations and that emission control system is free from defects in materials and workmanship. Coverage is for a period of 5 years or 50,000 miles, whichever occurs first.

Performance Warranty covers all costs of repairing or adjusting any components or parts as needed in order for the vehicle to pass a federally-required state or local emissions test. Other emission control parts related to these components are covered by the Performance Warranty, where applicable. If another part fails due to the failure of one of these components, both parts are covered. See customer's copy of warranty information for specific items covered.

EMISSION "PERFORMANCE" WARRANTY (CALIFORNIA)

If vehicle fails a Smog Check inspection, all necessary repairs and adjustments will be made by manufacturer to ensure vehicle passes inspection. Coverage is for 3 years or 50,000 miles, whichever occurs first.

EMISSION "DEFECT" WARRANTY (CALIFORNIA)

If any emission-related part on the vehicle is defective, the part will be repaired or replaced by manufacturer. Coverage is for 3 years or 50,000 miles, whichever occurs first.

Some emission-related parts are covered for 7 years or 70,000 miles, whichever occurs first, and will be repaired or replaced by manufacturer if found to be defective in material or workmanship. See customer's copy of warranty information for specific items covered.

FUSES & CIRCUIT BREAKERS

FUSE PANEL LOCATIONS

The fuse block is located under the instrument panel to the left of the steering column.

FUSE PANEL ID (1994 S-SERIES PICKUP)

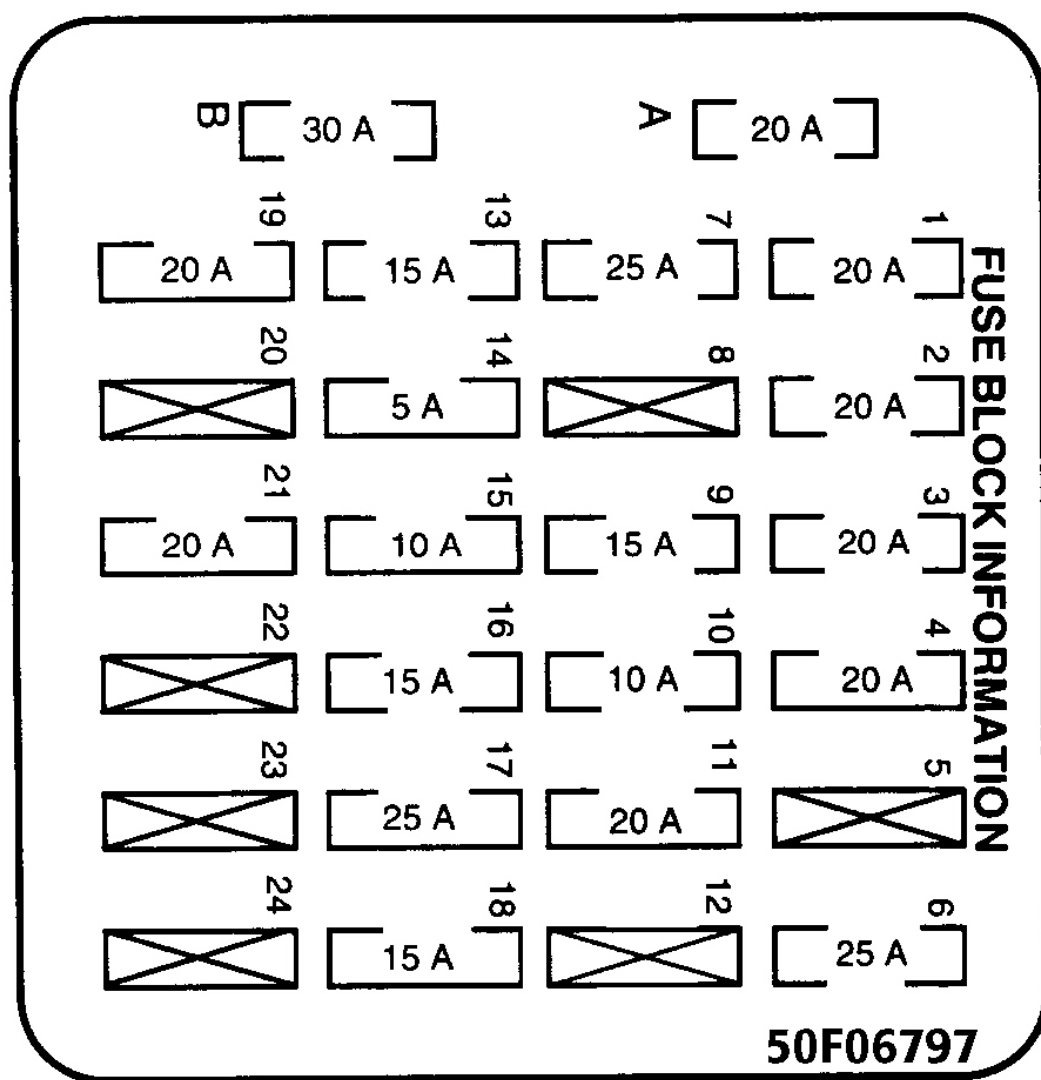


Fig. 5: Fuse Panel ID (1994 S-Series Pickup)
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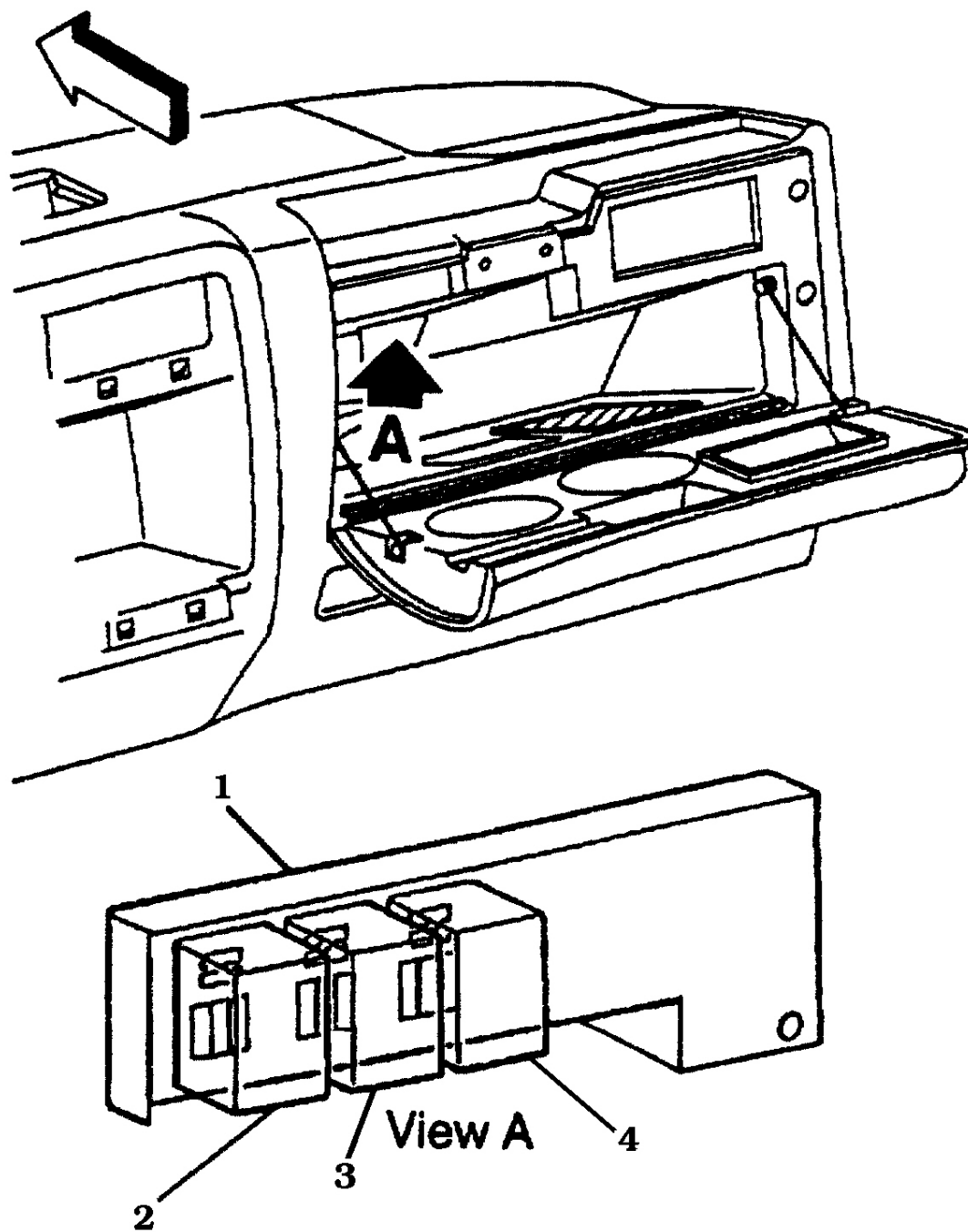
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- A - Pwr-Accy 20 Amp (Circuit Breaker) Power Door Locks
- B - Pwr-Wdo 30 Amp (Circuit Breaker) Power Windows
- 1 - Stop-Haz 20 Amp Stoplights & Hazard Warning Lights, Chime Module
- 2 - Horn-Dim 20 Amp Dome & Glove Box Lights, Lighted Visor Mirror, Horn, I/P Courtesy Light, Power Mirror
- 3 - T/L-Ctsy 20 Amp Electric Shift Transfer Case Module, Parking Lights, License Plate Light
- 4 - Gauges 20 Amp Auto Trans., Alternator Field, Variable Throttle Control, A/C Compressor, Cluster, Chime Module, 4WD Indicator Light, Heated O2 Sensor, Daytime Running Lights Module
- 5 - Not Used
- 6 - Htr-A/C 25 Amp Blower Motor, Temp. Door Motor
- 7 - Pwr Aux 25 Amp Power Auxiliary Outlets
- 8 - Not Used
- 9 - ECM Batt 15 Amp Engine Computer (Battery), ABS Battery, Fuel Pump
- 10 - ECM Ign 10 Amp Engine Computer (Ignition), Injectors, Engine Sensors
- 11 - Radio 20 Amp Radio, Inside Rearview Mirror Map Lights
- 12 - Not Used
- 13 - Rdo/Batt 15 Amp Clock, Radio Battery, CD Player
- 14 - Illum 5 Amp Cluster Illumination, Ash Tray Lamp, Radio Illumination, Heater Lamp, 4WD Illumination, Chime Module, Fog Lamp Sw. Illumination, Daytime Running Lights
- 15 - DRL 10 Amp Daytime Running Lights (Canada)
- 16 - Turn-B/U 15 Amp Turn Signal & Back-Up Lights
- 17 - Wiper 25 Amp Windshield Washers, Windshield Wiper Motor
- 18 - Brake 15 Amp Speedometer, ABS System, Cruise Control
- 19 - 4WD 20 Amp Four-Wheel Drive
- 20 - Not Used
- 21 - Fog 20 Amp Fog Lamps
- 22 - Not Used
- 23 - Not Used
- 24 - Not Used

RELAY CENTER (1994 S-SERIES PICKUP)

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1 RELAY CENTER

2. Fuel Pump Relay

3. Horn Relay

4. Fuel Injector Relay

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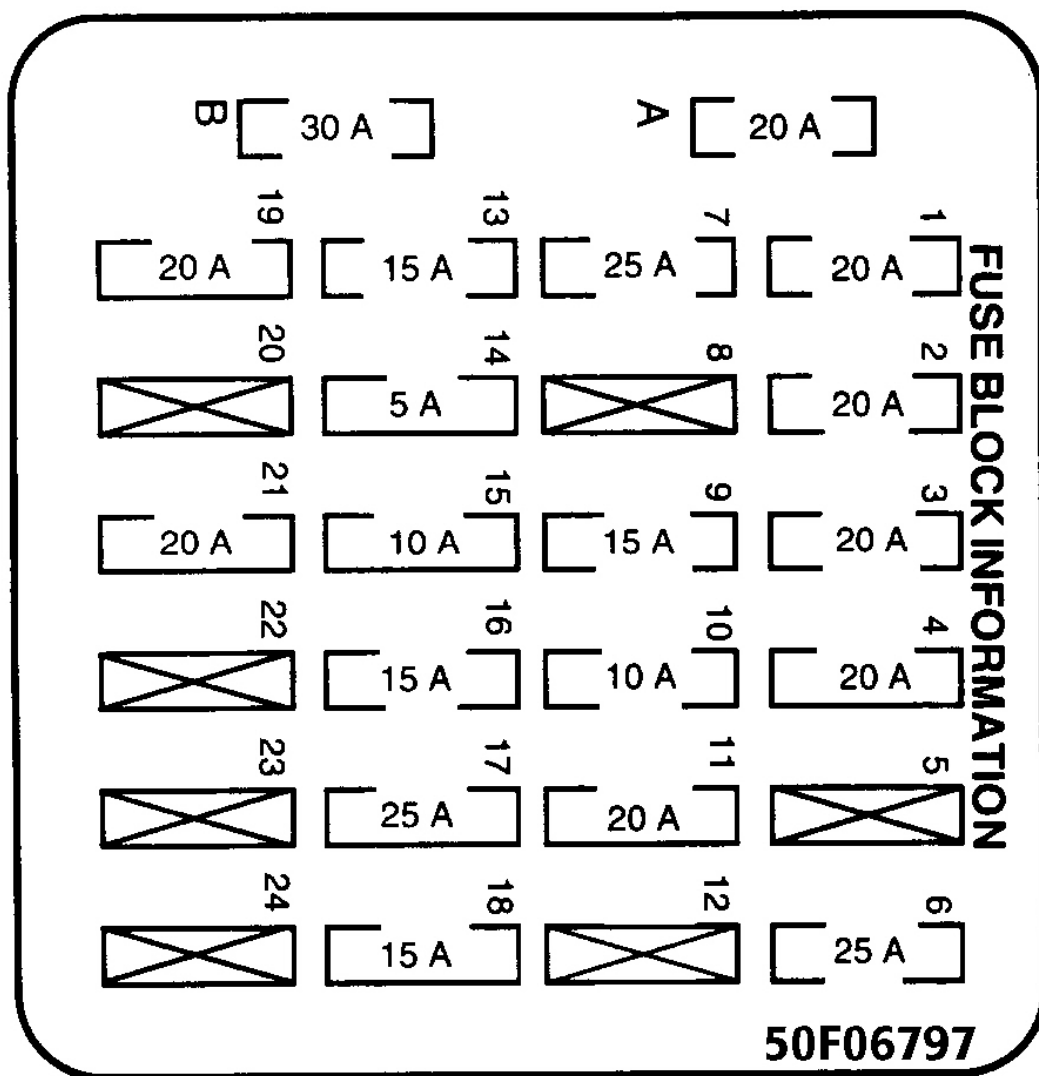
Fig. 6: Fuse Panel ID (1995 S-Series Pickup)

Courtesy of GENERAL MOTORS CORP.

Relay Identification

- 1 - Relay Center
- 2 - Fuel Pump Relay
- 3 - Horn Relay
- 4 - Fog Lamp Relay (If Equipped)

FUSE PANEL ID (1995 S-SERIES PICKUP)



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Fig. 7: Fuse Panel ID (1995 S-Series Pickup)

Courtesy of GENERAL MOTORS CORP.

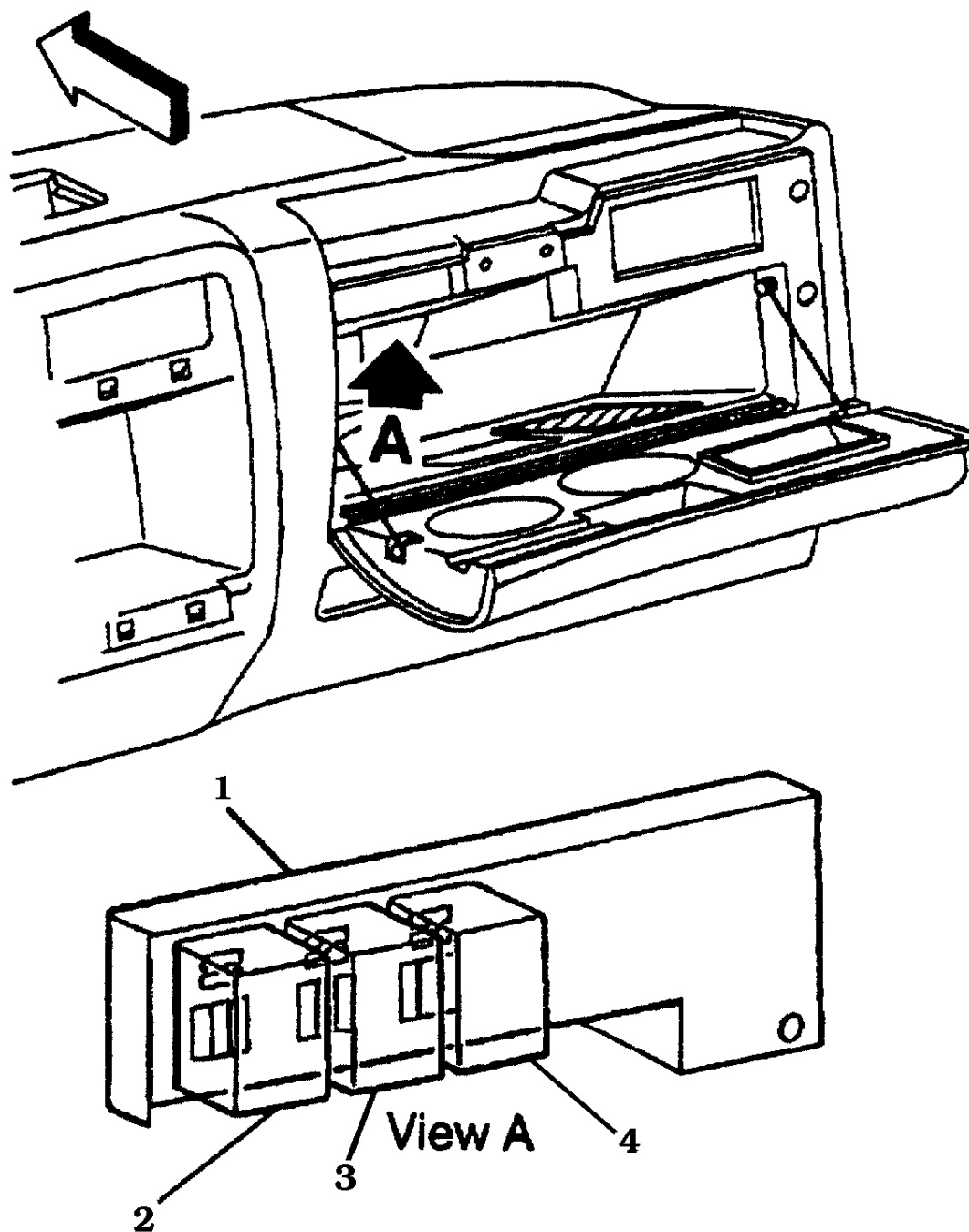
Fuse & Circuit Breaker Identification

- A - Pwr-Accy 20 Amp (Circuit Breaker) Power Door Locks
- B - Pwr-Wdo 30 Amp (Circuit Breaker) Power Windows
- 1 - Stop-Haz 20 Amp Stoplights & Hazard Warning Lights, Chime Module
- 2 - Horn-Dim 20 Amp Dome & Glove Box Lights, Lighted Visor Mirror, Horn, I/P Courtesy Light, Power Mirror
- 3 - T/L-Ctsy 20 Amp Electric Shift Transfer Case Module, Parking Lights, License Plate Light
- 4 - Gauges 20 Amp Auto Trans., Alternator Field, Variable Throttle Control, A/C Compressor, Cluster, Chime Module, 4WD Indicator Light, Heated O2 Sensor, Daytime Running Lights Module
- 5 - ENG1 20 Amp Linear EGR Valve, Evaporative Emissions Canister Purge Solenoid, Heated O2 Sensor #1, Heated O2 Sensor #2, Camshaft Position Sensor, Vehicle Control Module, Powertrain Control Module
- 6 - Htr-A/C 25 Amp HVAC Select Switch, Air Valve Actuator Motor
- 7 - Pwr Aux 25 Amp Power Auxiliary Outlets, Data Link Connector
- 8 - Not Used
- 9 - ECM Batt 15 Amp Engine Computer (Battery), ABS Battery, Fuel Pump
- 10 - ECM Ign 10 Amp Engine Computer (Ignition), Injectors, Engine Sensors
- 11 - Radio 20 Amp Radio, Inside Rearview Mirror Map Lights
- 12 - Not Used
- 13 - Rdo/Batt 15 Amp Clock, Radio Battery, CD Player
- 14 - Illum 5 Amp Cluster Illumination, Ash Tray Lamp, Radio Illumination, Heater Lamp, 4WD Illumination, Chime Module, Fog Lamp Sw. Illumination, Daytime Running Lights
- 15 - DRL 10 Amp Daytime Running Lights (Canada)
- 16 - Turn-B/U 15 Amp Turn Signal & Back-Up Lights
- 17 - Wiper 25 Amp Windshield Washers, Windshield Wiper Motor
- 18 - Brake 15 Amp Speedometer, ABS System, Cruise Control
- 19 - 4WD 20 Amp Transfer Case Control Module (Four-Wheel Drive)
- 20 - CRANK 10 Amp Diagnostic Energy Reserve Module (DERM)
- 21 - Fog 20 Amp Fog Lamps Relay
- 22 - Air Bag 10 Amp Air Bag Diagnostic Energy Reserve Module (DERM), Arming Sensor
- 23 - TRANS 10 Amp Automatic Transmission
- 24 - PRNDL 10 Amp Instrument Cluster

RELAY CENTER (1995-98 S-SERIES PICKUP)

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Fig. 8: Fuse Panel ID (1995-98 S-Series Pickup)

Courtesy of GENERAL MOTORS CORP.

Relay Identification

- 1 - Relay Center
- 2 - Fuel Pump Relay
- 3 - Horn Relay
- 4 - Fog Lamp Relay (If Equipped)